

Department of Transportation State of New Hampshire

Capital Budget Committee HB25 Presentation March 15, 2017

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STATE OF NEW HAMPSHIRE	という。	T T T T T T T T T T T T T T T T T T T	CODE		NAME		
CAPITAL IMPROVEMENT PROJECT REQUEST	EST	A AGENCY	960	Department of	Department of Transportation		
FISCAL YEARS 2018-2019		ACTIVITY / DIVISION	964010	Division of Aer	Division of Aeronautics, Rail & Transit	ransit	
PRIORITY#	-	PROJECT-TITLE / NAME		Public Transit	Public Transit Bus & Facility Matching Funds	ching Funds	
Capital Budget Request		Related Ar	nnual Oper	ating Budget Exp	Related Annual Operating Budget Expenditures / Savings Estimates	s Estimates	
Site Acquisition (a)					Expenditures		Savings
Site Improvement / Preparation (b)		Permanent Personnel Services (a)	Personnel S	ervices (a)			
Construction (c)		Other F	Other Personnel Services (b)	ervices (b)			
Utilities (d)			Current E	Current Expense (c)			
Architect / Engineering (e)			Eq	Equipment (d)			
Computer Systems / Equipment (f)				Travel (e)			
Hardware				Other (f)			
Software		Total Expenditures / Savings Estimates	/ Savings	Estimates			
Training		Accounting Unit:					
Service		Will these amounts be consistent each year?	consistent	each year?			
Furnish / Equipment (g)	1,241,881						
Other (h)			Capital	Sudget Criteria (Capital Budget Criteria (See Instructions)		
Total Capital Budget Request	1,241,881		Redn	Requirement Code:	A, B, C or D	В	
			۵	Definition Code:	A, B, C, D, or X	U	
Other Information		Funding Percentages by Source:	ges by Sou	rce:	G, F, H, O	ш	%
Total Square Footage:		G = General	F = Federal	eral	G, F, H, O	O	100.00%
Estimated Useful Life:	7 Years	H = Highway	O = Other	er	G, F, H, O	0	%
		An Information Technology Project must be part of your IT Plan.	Project mu	st be part of your	IT Plan. Project #	Û	
	<u>a</u>	Project Justification (Be Concise)	(es				
This request provides matching funds for: (1) The acquisition of public transit vehicles, facilities, and infrastructure, including bioycle & pedestrian infrastructure, for local public transit acceptes in Manchester Nashira Dover-Portsmouth Dervi-Salem Hanover-I ehanon Concord Laconia Claremont Regin Languages in Manchester Nashira and Keana and (2) the acquisition of	uisition of public trans	it vehicles, facilities, and infrastru-	acture, inclu	ding bicycle & per	destrian infrastructu	re, for local pul	blic transit
vehicles for non-profit agencies that provide transportation for elderly individuals with disabilities. Federal funds provide 80% of the capital needs for transit projects listed	ation for elderly individ	luals and individuals with disability	ties. Feder	al funds provide 8	0% of the capital ne	seds for transit	projects listed
rins request provides matching funds for (1) rine adquisition of public transit venicies, and infrastructure, including bicycle & pedestrian infrastructure, for local public transit agencies in Manchester, Nashua, Dover-Portsmouth, Derry-Salem, Hanover-Lebanon, Concord, Laconia, Claremont, Berlin-Lancaster-Littleton, and Keene, and (2) the acquisition of vehicles for many provide transportation for elderly individuals and individuals with disabilities. Federal funds provide 80% of the capital needs for transit provide transportation for elderly individuals and individuals.	ulstrion or public traits Derry-Salem, Hanove ation for elderly individ	it venicles, racinues, and inirasin r-Lebanon, Concord, Laconia, Cl luals and individuals with disabilif	Joture, inclu laremont, B ties. Feder	public transit venicies, racilities, and infrastructure, including bicycle & pedestrian infrastructure, for local public tra em, Hanover-Lebanon, Concord, Laconia, Claremont, Berlin-Lancaster-Littleton, and Keene, and (2) the acquisitio Iderly individuals and individuals with disabilities. Federal funds provide 80% of the capital needs for transit projec	destrian infrastructure titleton, and Keene, 0% of the capital ne	re, for local pur and (2) the acq seds for transit	in in

Public transponation enables trainst providers to reverage rederal capital funds for needed verticle replacements and admits that might not other provides access to jobs and critical services for New Hampshire residents, promoting economic development and mobility for all citizens.

discretionary Federal grants made available for transit capital projects. Without State Capital match many transit projects would be delayed due to the inability to raise the required 20% Requested funds will be used to match formula apportioned funds from the Federal Transit Administration grants programs including FTA Section 5339 Capital Bus & Bus Facility Program funds, FTA Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities funds, and FTA Section 5307 Urbanized Area Formula Program funds as well as any non-federal match on capital projects. Funding for rural transit systems is included in the DOT Operating Budget GL Accounting Unit 2916; Public Transportation, Class 072: Grants Federal. Urban transit systems receive federal funds directly from the Federal Transit Administration and these federal funds and local matching funds are not included on this form.

	603-271-2449	5/16/2016	
	Telephone Number:	Date:	
	Director of Aeronautics, Rail and Transit	Commissioner	
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-	Patrick	,	
	ame:	rictoria F. Sheehan	
	Contact N	Name: V	

2018-2019 Biennium: Public Transit Request

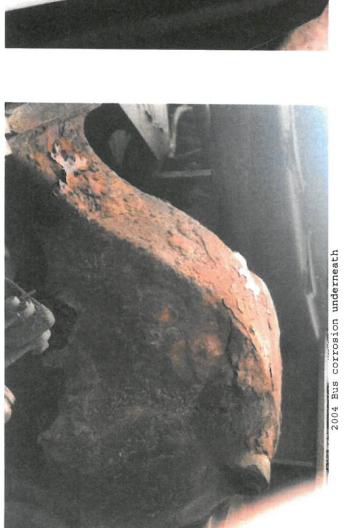
This request provides matching funds for: (1) The acquisition of public transit vehicles, facilities, and infrastructure, including bicycle & pedestrian infrastructure, for local public transit agencies in Manchester, Nashua, Dover-Portsmouth, Derry-Salem, Over-Lebanon, Concord, Laconia, Claremont, Berlin-Lancaster-Littleton, and Keene, and (2) the acquisition of vehicles for profit agencies that provide transportation for elderly individuals and individuals with disabilities. Federal funds provide 80% of the capital needs for transit projects listed above.

Federal funds provide at least 80% of the capital needs for transit projects listed above. The requested State Capital match will provide 10% (or ½ of the required match) and local funds will provide the remaining required match. State participation enables transit providers to leverage Federal capital funds for needed vehicle replacements and facility improvements that might not otherwise be available. Public transportation provides access to jobs and critical services for New Hampshire residents, promoting economic development and mobility for all citizens. Requested funds will be used to match formula apportioned funds from the Federal Transit Administration grants programs including FTA Section 5339 Capital Bus & Bus Facility Program funds, FTA Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities funds, and FTA Section 5307 Urbanized Area Formula Program funds. Without State Capital match many transit projects would be delayed due to the inability to raise the required non-federal match on capital projects. Funding for rural transit systems are included in the DOT Operating Budget GL Accounting Unit 2916; Public Transportation, Class 072: Grants Federal. Urban transit systems receive federal funds directly from the Federal Transit Administration and these federal and local matching funds for urban transit systems, totaling \$6,002,654 and are not in the DOT Operating Budget.

2	018-219 Biennium		te Capital Funds quested	The second section	cal Match equired	Federal Funds everaged	То	tal Project Costs
CART	2 ADA paratransit vehicles	5	20,000	\$	20,000	\$ 160,000	\$	200,000
COAST	11 heavy-duty midlife vehicle overhauls, 2 45' used motor coaches, 2 ADA accessible minivans, 10 bus shelters	\$	76,750	\$	76,750	\$ 614,000	\$	767,500
	4 30' heavy-duty transit buses, 5 12&2 ADA paratransit buses	\$	368,667	\$	368,667	\$ 2,949,338	\$	3,686,672
Nashua Transit	4 30' heavy-duty transit buses, 1 ADA paratransit bus	\$	201,544	\$	201,544	\$ 1,612,355	\$	2,015,444
Advance Transit	4 35' heavy-duty low floor buses, 4 30' medium-duty transit buses, 1 ADA paratransit bus, 5 bus shelters	\$	256,078	\$	256,078	\$ 2,048,626	\$	2,560,782
Belknap-Merrimack Community Action Program (Concord Area Transit & Winnipesaukee Transit)	1 30' medium-duty bus, 3 ADA paratransit buses	\$	46,441	\$	46,441	\$ 371,530	\$	464,412
Community Alliance Transportation Services	2 accessible cutaway vehicles & 2 accessible vans	\$	24,000	\$	24,000	\$ 192,000	\$	240,000
Tri-County Community Action Program (North Country Transit & Carroll County Transit)	5 small cutaway transit buses & 1 24-passenger medium-duty transit bus	\$	58,900	\$	58,900	\$ 471,200	\$	589,000
VNA @ HCS (Keene)	3 27' transit buses	\$	19,500	\$	19,500	\$ 156,000	\$	195,000
Public Transit Bike-Ped infrastructure	Bicycle & pedestrian infrastructure improvements including bicycle racks, passenger shelters, way finding signage, curb cuts for improved accessibility	\$	20,000	\$	20,000	\$ 160,000	\$	200,000
Statewide 5310 providers	10% match for vehicles to be solicited through statewide (open solicitation) for non-profits providing service to seniors & individuals with disabilities (approximately 20-24 vehicles)	\$	150,000	\$	150,000	\$ 1,200,000	\$	1,500,000
	Total	\$	1,241,881	\$	1,241,881	\$ 9,935,048	\$	12,418,810

Total funds requested for the 2018-2019 Biennium: Total vehicles requested for 2018-2019 Biennium:

\$1,241,881 77 (approximately)





2004 Bus w/ corrision on entry door



2004 Bus w/ corrision on frame



2004 Gillig exterior





2003 Orion Bus



2003 Orion Bus

2011 Cutaway Paratransit -- rust



Community Alliance: 2010 Startrans rust & high mileage



Keene City Express: 2007 bus with 125,000+ miles

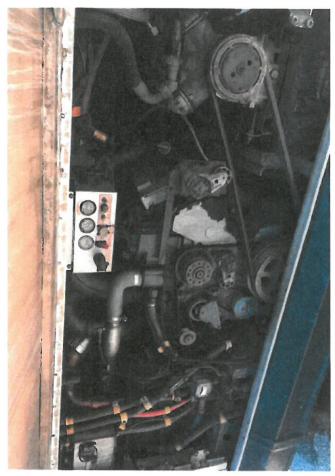


CART Bus Salem-Derry: 2009 Arboc with 150,000+ miles and 7.1 mpg





Interior of city bus to be overhauled



Engine to be overhauled



2006 Gillig bus with cosmetic repairs made, but heavy daily use and wear & tear



2009 ADA paratransit bus with cosmetic repairs made, but heavy daily use and wear & tear

FORM 1A

New Hampshire Department of Transportation Highway Maintenance District 1 960515 CODE 960 HB35 Section & II-A ACTIVITY / DIVISION AGENCY CAPITAL IMPROVEMENT PROJECT REQUEST STATE OF NEW HAMPSHIRE FISCAL YEARS 2018-2019

4

ies	tes	Savings						42,812	42,812		Yes					100.00%			
Lisbon 114 - New Patrol Shed Facilities	Related Annual Operating Budget Expenditures / Savings Estimates	Expenditures	ces (a)	ces (b)	use (c)	nent (d)	Travel (e)	Other (f)	imates	it.	1 year?		Capital Budget Criteria (See Instructions)	Requirement Code: , C or D A	Definition Code: , D, or X	F, H, O	G, F, H, O	G, F, H, O	of your IT Plan. Project # ⇔
PROJECT-TITLE / NAME	Related Annual Operating Bu		Permanent Personnel Services (a)	Other Personnel Services (b)	Current Expense (c)	Equipment (d)	7.6	0	Total Expenditures / Savings Estimates	Accounting Unit: 3007 Highway Maint.	Will these amounts be consistent each year?	"我们是我们的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	Capital Budget (R		Funding Percentages by Source:	G = General F = Federal	H = Highway O = Other	An Information Technology Project must be part of your IT Plan. Project #
] 							
-			350,000	1,600,000	30,000	100,000			が、			e yilki	•	2,080,000			6400 sf	25	
PRIORITY #	Capital Budget Request	Site Acquisition (a)	Site Improvement / Preparation (b)	Construction (c)	Utilities (d)	Architect / Engineering (e)	Computer Systems / Equipment (f)	Hardware	Software	Training	Service	Furnish / Equipment (g)	Other (h)	Total Capital Budget Request		Other Information	Total Square Footage:	Estimated Useful Life:	

Construct new Highway Maintenance Patrol Section Facilities in Lisbon, including patrol shed and salt shed. Constructed in 1902, this facility does not meet current building codes, is obsolete, potentially unsafe, and is NOT energy efficient. Due to its historic significance, this structure is not a candidate for renovation. The new facilities can be sited on the existing lot due to the recent acquisition of the adjacent lot.

Project Justification (Be Concise)

Preliminary Plans: Attach a schematic and location sketch when applicable on an 8-1/2" x 11" sheet.

7,88-4641 Telephone Number: Date: Commissioner Philip Beaulieu - District 1 Engineer Victoria F. Sheehan Contact Name: Name:



The existing PS114 Lisbon facility was constructed in 1902 and is obsolete, potentially unsafe, not energy efficient and is under sized to meet level of service requirements. The current facility includes 1-bay vehicle storage that doesn't accommodate a state truck with wing installed, 1-room crew quarters and salt storage. Current facility is not capable of storing current maintenance vehicles and does not meet current building codes. The proposed new facility can be sited on the existing property. Utility and computer system upgrades are included.

The current salt storage is located in one bay of the building with insufficient capacity to store at least 1-years' worth of salt. The floor of the salt bay is below the exterior ground level creating issues with drainage at the entrance to the bay.

2) What the project is replacing or adding on to:

This project will construct a new right-sized facility that will include crew quarters, bathrooms, foremen office, and vehicle storage bays for trucks. The crew currently includes 5 full-time NH DOT District 1 employees with (3) 3-5 Ton plow trucks. The current facility is too small to allow for crew members to take a break without using space not intended for that purpose. The current facility has one crew space and the foreman uses a portion of the crew quarters as an office which is not secure or conducive for employee relations.

In the winter, only 1 plow truck can be stored inside with the other trucks stored outside. Trucks equipped with dry rock salt pre-wet systems can freeze-up when stored outside. Newer plow trucks equipped with vehicle emissions controls can also have temperature related issues if not stored in an above freezing environment.

Existing facility will be demolished as part of the project and was determined to have no adverse effect on historic properties.

3) A brief description of what the project includes

The project will include an 80-ft. by 80-ft. building that meets current building code requirements. Architectural/engineering analyses will define the building dimensions and utility accommodations similar to recent replacement NH DOT Highway Maintenance Facilities.

The project will also include a 70'x55' salt storage building using the standard DOT design to reduce engineering costs and sized to store at least 1-year of salt.

4) Any back up information



Photo 1: View of backside of building showing the salt storage bay (open) and vehicle storage bay (with garage door). Also visible is a significant crack in the exterior masonry wall near the bay opening.

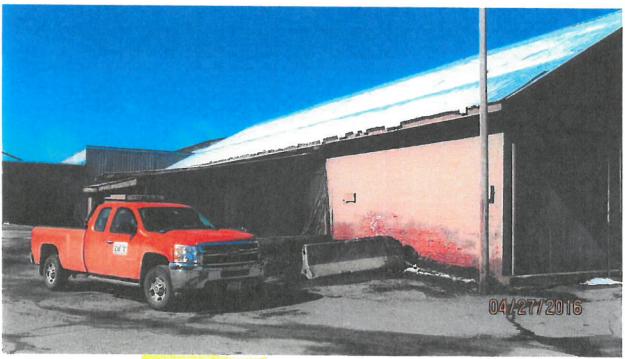


Photo 2: View of backside of building at the end near entrance to crew quarters showing significant damage.

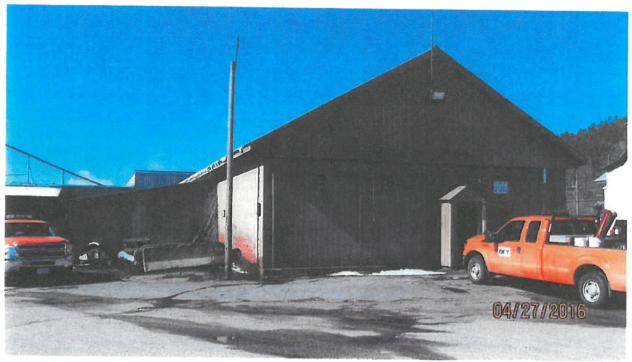


Photo 3: View of the front end of the building and entrance into the crew quarters.

FORM 1A 100.001 components, the potential for environmental issues, compliance and extensive repairs increases considerably. Prior Capital Improvement Projects (CIP) provided funding to bring many sites into environmental compliance; this CIP request continues that effort to replace the oldest and highest risk sites and to make structural improvements to sites near mid-life to prolong those 271-2693 Savings The NH Department of Transportation currently has 40 fuel sites that have underground storage tanks and appurtenances. As the sites get beyond the life expectancy of the tanks and Statewide - Underground Fuel Tank Replacement New Hampshire Department of Transportation Related Annual Operating Budget Expenditures / Savings Estimates Telephone Number: V D I Û Expenditures Requirement Code: B, C or D 3, F, H, O G, F, H, O G, F, H, O Definition Code: C, D, or X Capital Budget Criteria (See Instructions) An Information Technology Project must be part of your IT Plan. Project # sites' life span and to minimize potential environmental issues. Currently, 6 sites are planned for scheduled replacement with an average cost of \$325K. Preliminary Plans: Attach a schematic and location sketch when applicable on an 8-1/2" x 11" sheet. 在門下為了 以所以於此行為一下不以下 的是無於於於四日節 Operations Permanent Personnel Services (a) Other Personnel Services (b) Current Expense (c) Equipment (d) Travel (e) Other (f) Fotal Expenditures / Savings Estimates Will these amounts be consistent each year? F = Federal O = Other Funding Percentages by Source: 960515 CODE 960 Project Justification (Be Concise) H = Highway G = General 0 Section a II-PROJECT-TITLE / NAME ACTIVITY / DIVISION Accounting Unit: AGENCY Caleb Dobbins - State Maintenance Engineer Commissioner STATE OF NEW HAMPSHIRE CAPITAL IMPROVEMENT PROJECT REQUEST 1,900,000 100,000 2,000,000 2 PRIORITY # Capital Budget Request Site Improvement / Preparation (b) Construction (c) Utilities (d) Architect / Engineering (e) Computer Systems / Equipment (f) Total Capital Budget Request Site Acquisition (a) Furnish / Equipment (g) Other (h) Estimated Useful Life: Total Square Footage: Other Information Victoria F. Sheehan 思考に対象を持ち FISCAL YEARS 2018-2019 Training Software Hardware Contact Name: Name:

The NH Department of Transportation currently has 40 fuel sites that have underground storage tanks and appurtenances that are 25 years or older. As the sites get beyond the warranty and life expectancy of the tanks and components, the potential for environmental issues and extensive repairs increases considerably. Prior Capital Improvement Projects (CIP) provided funding to bring many sites into environmental compliance; this CIP request continues that effort to replace the oldest and highest risk sites and to make structural improvements to sites near mid-life to prolong those sites' life span and to minimize potential environmental issues.

2) What the project is replacing or adding on to:

The project will continue the recapitalization plan of the existing fuel system by reconstructing new fuel sites at different patrol shed locations throughout the state. In most situations the existing fuel site will be removed to accommodate the new tank(s) and appurtenances, however in some locations the existing tank(s) will remain and everything above the tank top will be replaced.

3) A brief description of what the project includes

The project will include reconstruction of single product (diesel) and two product (unleaded and diesel) fuel sites. The project will also allow the reconstruction of some sites, except the tank(s), for those sites that are still young enough where a tank top upgrade will extend the site life another 10 to 15 years while reducing the environmental risk considerably. The desire is to perform tank top upgrades and reconstruct as many fuel sites as allowed by available funding, in the respective State Fiscal Years (SFY) while generally keeping with the following priority list:

- 1) SFY 16-17 current available funding ~ \$800,000 In calendar years (CY) 16-17 perform tank top upgrades (TTU) on Merrimack (UL & DS), Goffstown (DS), Chester (DS), and Chichester (DS); estimated cost \$200,000. In CY 17 perform TTU on Lancaster (UL & DS), Crawford (DS), and Lincoln (UL & DS); estimated cost \$200,000. Reconstruct Salem (UL & DS) in conjunction with the newly planned patrol and salt sheds, estimated cost \$350,000. Total estimated cost \$750,000
- 2) SFY 18-19 requested funding \$2,000,000 In CY 18 perform (TTU) on Hampton (UL & DS), Canaan (DS), Henniker (DS), Durham (UL & DS & BO), Exeter (DS), and Allenstown (DS), estimated cost \$350,000. Reconstruct Lisbon (DS) in conjunction with the newly planned patrol and salt sheds; estimated cost \$300,000. CY 18 total estimated costs \$650,000. In CY 19 Reconstruct 4 to 5 single diesel sites from the following possible locations - Orford, Rumney, Marlow, Cornish, Greenville, Hollis, Hinsdale, Hancock, Pittsburg, Milan, and Jefferson to include engineering costs; estimated cost \$1,300,000. Total estimated cost \$1,950,000. Other sites may be considered, as conditions dictate at that time.

4) Any back up information

- 1.) DOT is doing ultrasonic testing on steel double wall tanks being removed this year that exceed 25 years old to better assess the physical condition and departments risk with older steel tanks in the ground.
- 2.) New EPA regulations for tri-annual inspections and integrity (leak) testing of all sumps would require improvements to tank tops and sumps if they don't pass testing. Fuel personnel completed visual inspections of sites without recent tank top upgrades or reconstruction and assessed potential

issues that could be encountered during testing. This evaluation guided the prioritization of tank top upgrades on sites installed between 1993 and 2005.



Photo 1: Chichester – Drive pad with extensive damage and no positive limiting barriers (PLB's) in concrete. Increases risk of water getting into sumps and spills reaching subsurface soils. This is representative of some sites current conditions or potential future conditions without tank top upgrades or replacements.



Photo 2: Merrimack – Piping sump with water in the bottom causing significant damage to the piping components. Tank top upgrades will replace all piping components, sumps, tank pads and drive pads, extending the life of sites and significantly reducing short and long term maintenance requirements.



Photo 3: Dover Turnpikes – Dual product fuel site with undersized drive and tank pads with cracks prior to tank top upgrades in 2015, representative of the layout and condition of many older DOT sites .



Photo 4: Dover Turnpikes – Fuel site after 2015 tank top upgrade with new sumps, manholes, drive pad with PLB's and tank pad.



Photo 5: Northwood – Example of a full tank top upgrade or full replacement for a single dispenser site.

こうこうかんでいたとう こうじょう あんしゅうしゅう FORM 1A 36,661 36,661 100.00% はない はんとういうない New Hampshire Department of Transportation Savings 271-2693 Currently the Department of Transportation cannot store a season's worth of salt at all patrol shed locations. Ability to store ample amount of material will save funds due to being able to purchase materials and store them when the best price is available. Environmental regulations also require that all salt be stored under cover. Design and construct salt sheds statewide. Yes Highway Maintenance Statewide Telephone Number: m 4 Û Expenditures F, H, O Definition Code: D, or X G, F, H, O G, F, H, O Requirement Code: , C or D Statewide Salt Sheds Capital Budget Criteria (See Instructions) An Information Technology Project must be part of your IT Plan. Project # Preliminary Plans: Attach a schematic and location sketch when applicable on an 8-1/2" x 11" sheet Related Annual Operating Budget Expenditures / Savings Estimates Permanent Personnel Services (a) Other Personnel Services (b) Total Expenditures / Savings Estimates Current Expense (c) Equipment (d) Travel (e) Other (f) 3007 Highway Maintenance Will these amounts be consistent each year? F = Federal 960515 CODE Funding Percentages by Source: O = Other 960 いたというのできる。 Project Justification (Be Concise) H = Highway G = General PROJECT-TITLE / NAME ACTIVITY / DIVISION Section 2 II-Accounting Unit: AGENCY Caleb Dobbins - State Maintenance Engineer Commissioner 160,000 100,000 25 1,400,000 1,660,000 Varies 3 STATE OF NEW HAMPSHIRE CAPITAL IMPROVEMENT PROJECT REQUEST PRIORITY # Victoria F. Sheehan Site Acquisition (a) Construction (c) Utilities (d) Architect / Engineering (e) Computer Systems / Equipment (f) Furnish / Equipment (g) Other (h) Total Capital Budget Request Estimated Useful Life: Total Square Footage: Training Software Hardware Service FISCAL YEARS 2018-2019 Capital Budget Request Contact Name: Other Information Name:

The department currently cannot store a season's worth of salt at all patrol shed locations and some sheds are reaching the end of their useful life, requiring significant maintenance to maintain function and safety. The ability to store ample salt will save funds due to being able to purchase materials and store them when the best price is available. Environmental regulations also require that all salt be stored under cover.

The department's standard high arch gambrel design allows delivery of salt to generally occur within the shed due to high door opening, limiting the potential environmental impacts from salt operations.

2) What the project is replacing or adding on to:

The project will construct new stand-alone salt buildings at different patrol shed locations throughout the state. In most situations the existing buildings will be demolished to accommodate the new structures, however in some locations the existing structure may remain depending on site layout and condition of the structure.

3) A brief description of what the project includes

The project will include construction of stand-alone salt buildings (4,000 sf to 11,500 sf) with lean-too cold storage and/or spreader rack bays on either side as additional alternates within the bidding process. The project will design and construct as many salt sheds as allowed by available funding while generally keeping with the following priority list:

- D2 Franklin (211) Medium Shed Shed is 44 years old and current capacity is 2000 tons. Current usage is almost 1900 tons per year, however the structure is in critical need of replacement to maintain function. Side walls are blown out in some locations and steel supports in roof have shown significant loss due to the corrosive environment.
- 2) D1 Pinkham (113-P) Medium Shed Shed is 52 years old current capacity is 1650 tons. Current usage is around 1500 tons per year, however the structure is in critical need of replacement to maintain function. Roof has holes in many locations, allowing precipitation to get into the salt pile reducing the quality of the salt and creating chunks in the pile.
- 3) D3 Loudon (316) Medium Shed Shed is 30 years old and current capacity is only 1,000 tons. Current usage is around 1050 tons per year and the ten year plan includes multiple projects that will expand sections of the Route 106 corridor and intersections in Loudon that this facility maintains. Replacement is critical to be able to store a years' worth of salt now and into the future as the demands of this corridor increase.
- 4) D1 Milan (106) Small Shed Shed is 42 years old and current capacity is only 500 tons. Annual usage is over 800 tons per year. The limited capacity requires the shed to store some material outside to maintain an adequate amount of material on hand to respond to significant storm events. Replacement is critical to be able to store a years' worth of salt undercover and maintain function due to an aging building.
- 5) D2 Bristol Medium Shed Shed is 45 years old and current capacity is 1500 tons. Annual usage is around 2100 tons per year. Replacement is critical to be able to store a years' worth of salt undercover and maintain function due to an aging building.
- 6) D3 Orford Medium Shed Shed is 40 years old and current capacity is 1700 tons. Annual usage is almost 2200 tons per year. Replacement is critical to be able to store a years' worth of salt undercover and maintain function due to an aging building.

7) D1 – Whitefield – Small Shed – Shed is 31 years old and current capacity is only 500 tons. Annual usage is over 1000 tons per year. Replacement is critical to be able to store a years' worth of salt undercover.

8) D3 - Belmont

4) Any back up information

Most recent bid results have shown total construction costs up to \$106 per sf for the departments standard High Arch Gambrel Salt building. Based on these numbers we would estimate anywhere from \$410,000 to \$960,000 for construction depending on the size of the building and addition of side storage buildings.



Photo 1: Franklin 211 - Front Elevation



Photo 2: Franklin 211 – Sidewall starting to blow out and temporary braces installed.

STATEWIDE SALT SHEDS 6/15/2016

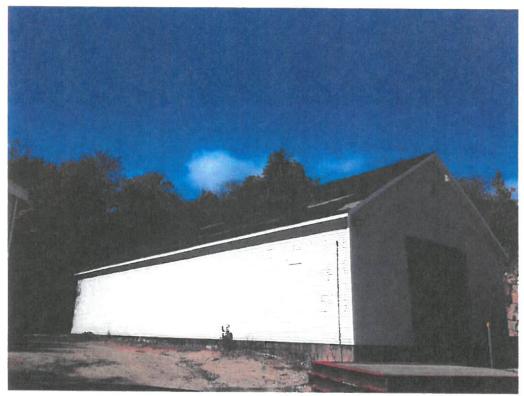


Photo 3: Pinkham 113 – Front and Side Elevation, Roof in disrepair.

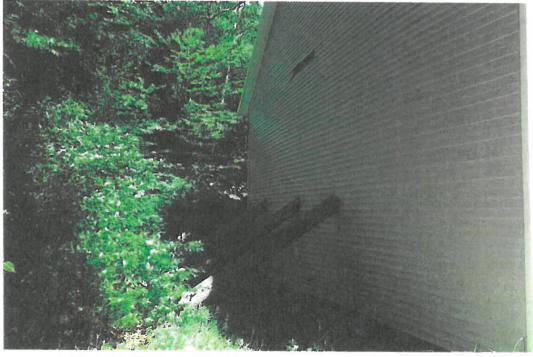


Photo 4: Pinkham 113 – Temporary Buttresses supporting bowed rear wall.



Photo 5: Loudon 316 - Front Elevation.

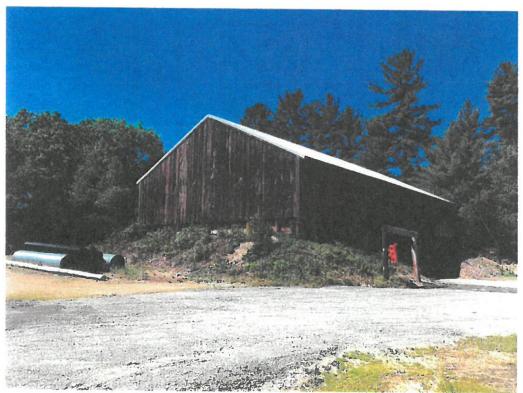


Photo 6: Loudon 316 – Sand fill used to hold push walls in place.

STATEWIDE SALT SHEDS 6/15/2016



Photo 7: Milan 106 – Front and side elevation.



Photo 8: Milan 106 – Sand fill used to hold failed rear wall in place and makeshift anchors keeping walls in place.

STATEWIDE SALT SHEDS



Photo 9: Bristol 206 - Front Elevation



Photo 10: Bristol 206 – Temporary braces holding side and rear walls in place.

STATE OF NEW HAMPSHIRE

CAPITAL IMPROVEMENT PROJECT REQUEST FISCAL YEARS 2018-2019

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FORM 1A	NAME	New Hampshire Department of Transportation	Highway Maintenance District 5	Manchester 527 - Addition to Patrol Shed
	CODE	960	960515	
Section 2 II-D		AGENCY	ACTIVITY / DIVISION	PROJECT-TITLE / NAME

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Capital Budget Request	Request		10.00	Rela	ated Annual	Related Annual Operating Budget Expenditures / Savings Estimates	enditures / S	avings Es	timate	
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Site Improvement / Preparation (b)	paration (b)				Perman	Permanent Personnel Services (a)	(a)			
Cons	Construction (c)	escifo.			₽ O	Other Personnel Services (b)	(q)			
	Utilities (d)					Current Expense (c)	(0)			
Architect / Engineering (e)	neering (e)	120,000				Equipment (d)	(q)			
Computer Systems / Equipment (f)	luipment (f)	r fi				Travel (e)	(e)			
Hardware						Other (f)	(£)			
Software				To	otal Expendit	Total Expenditures / Savings Estimates	es			
Training				Accounting Unit:						
Service				Will th	hese amounts	Will these amounts be consistent each year?				
Furnish / Equipment (g)	uipment (g)				1000 · 1				· 新年 24	
	Other (h)				Cap	Capital Budget Criteria (See Instructions)	see Instructi	ons)		
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LonstEngineering to construct addition to District 5 Highway Maintenance Patrol Section PS527 facility in Manchester. Current facility is under sized to meet level of service requirements. Current facility is not capable of storing current maintenance vehicles.

Sucher P. Mark

ame: Richard Radwanski - District 5 Engineer
Victoria F. Sheehan Commissioner

Contact Name:

Name:

Preliminary Plans: Attach a schematic and location sketch when applicable on an 8-1/2" x 11" sheet.

Telephone Number: 666-3336

Date:

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PROJECT NAME: Manchester 527 - Patrol Shed Renovation/Addition

1) Why the project is necessary:

The existing PS527 Manchester facility is under sized, to meet level of service requirements especially given the I-93 Expansion project. The existing facility is not capable of storing current maintenance vehicles including brine trucks. The existing facility does not meet modern building codes, is considered obsolete, and potentially unsafe. Recent facility improvements to reduce interior mold formation have significantly improved the facility's energy efficiency. The proposed renovation/addition can be sited on the existing property. Utility and computer system upgrades are included.

2) What the project is replacing or adding on to:

This project will construct new crew quarters, bathrooms, foremen office, and two new vehicle storage bays for brine tanker trucks used to pre-treat roadways before a winter storm. The crew currently includes 11 full-time NH DOT District 5 employees which are supplemented for winter maintenance by up to 5 temporary NH DOT borrowed employees, and 8 hired trucks with an operator. The current facility is too small to allow for crew members to take a break without using space not intended for that purpose. The current facility has one bathroom which is not adequate for the regular crew size, and especially in the winter. Currently the foreman uses a closet as an office which is not secure or conducive for employee relations.

In the winter, the brine tanker trucks are stored inside at the PS511 Bedford facility to reduce the potential freeze-up of dispensing systems if stored outside. If a winter storm requires pre-treatment, then the crew needs to bring the operators to Bedford before the work can begin. Trucks equipped with dry rock salt pre-wet systems can freeze-up when stored outside. Newer plow trucks equipped with vehicle emissions controls can also have temperature related issues if not stored in an above freezing environment.

A brief description of what the project includes

The project will include right-sizing the crew quarters, bathrooms, foremen office to meet current building code requirements. Architectural/engineering analyses will define the addition dimensions and utility accommodations. This addition to the building can be made on the west end of the existing structure.

The addition of 2 truck storage bays to the east end of the current structure is also planned. These will match the current building size and configuration with each bay being approximately 20-feet by 50-feet with an overall addition of approximately 40-ft wide by 50-ft deep. Two overhead garage doors are proposed for each bay to allow for trucks to pull through reducing backing accidents.

No salt storage or spreader storage buildings, or fuel dispensing improvement are proposed.

4) Any back up information

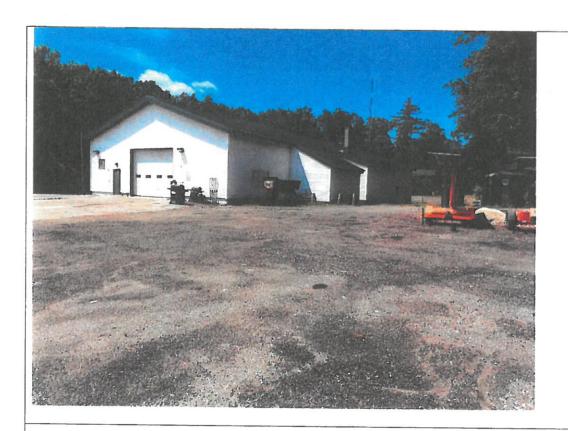
Attached are recent photographs of the existing facility for reference.



PS527 Manchester Perspective View Looking East



PS527 Manchester Perspective View Looking North



PS527 Manchester Perspective View Looking West



PS527 Manchester Perspective View Looking South

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PS527 Manchester Interior View Looking East



PS527 Manchester Interior View Looking West



PS527 Manchester Interior View Supplemental Crew Quarters with Electrical Panels



PS527 Manchester Interior View Bathroom and crew quarters (for 11 DOT full-time employees + 10 additional employees in winter from hired equipment operators or borrowed NH DOT employees).

FORM 1A 15,214 75.00% 44,804 25.00% 打造工作 的人名英格兰人姓氏格特的变体 医克克特氏病 医多种性病 经有效的 经有效的 医有种性 60,018 Savings redevelopment of the Balsams resort in Dixville. The department has received a grant from the Northern Border Regional Commission to pay 25% up to \$250,000 of the New Hampshire Department of Transportation Yes Construct new Highway Maintenance Patrol Section Facilities in Dixville. The current facilities need to be relocated to a new location to accommodate the planned Dixville 103D - New Patrol Shed Facilities Related Annual Operating Budget Expenditures / Savings Estimates B I 0 Û V Highway Maintenance District 1 Expenditures F, H, O Requirement Code: , C or D G, F, H, O Definition Code:, D, or X G, F, H, O Project # Capital Budget Criteria (See Instructions) An Information Technology Project must be part of your IT Plan. Total Expenditures / Savings Estimates Permanent Personnel Services (a) Other Personnel Services (b) Current Expense (c) Equipment (d) Travel (e) Other (f) Will these amounts be consistent each year? 3007 Highway Maintenance Funding Percentages by Source: F = Federal 960515 O = Other CODE 960 Project Justification (Be Concise) Section of IT-C PROJECT-TITLE / NAME H = Highway G = General ACTIVITY / DIVISION Accounting Unit: AGENCY CAPITAL IMPROVEMENT PROJECT REQUEST STATE OF NEW HAMPSHIRE 125,000 735,000 15,000 3500 sf 1,000,000 125,000 25 2 PRIORITY # Capital Budget Request Site Acquisition (a) Site Improvement / Preparation (b)
Construction (c) Utilities (d) Total Capital Budget Request Architect / Engineering (e) Estimated Useful Life: Computer Systems / Equipment (f) Furnish / Equipment (g) Total Square Footage: Other (h) relocated cost of the relocated facility. Other Information **FISCAL YEARS 2018-2019** Training Hardware Software Service

Preliminary Plans: Attach a schematic and location sketch when applicable on an 8-1/2" x 11" sheet.

Philip Beaulieu - District 1 Engineer

Commissioner

Victoria F. Sheehan

Contact Name:

Name:

Telephone Number: 788-4641

Date:



The existing facilities need to be relocated to a new location to accommodate the planned redevelopment of the Balsams Resort in Dixville. The patrol shed is a satellite facility for the Errol 103 patrol shed, however is critical to the Departments ability to maintain current winter service levels along NH 26 on each side of Dixville Notch due to the severe winter weather in this patrol area.

The department has received a grant from the Northern Border Regional Commission to pay 25% up to \$250,000 of the costs for a relocated facility.

2) What the project is replacing or adding on to:

This project will construct a new right sized facility that will include vehicle storage bays for at least 2 trucks, crew quarters, bathroom and office space. The project will also include a new salt shed to accommodate storage of at least 1-years' worth of salt. The facilities will be located on a new property and will require some site work to develop the new parcel.

3) A brief description of what the project includes

The project will include an approximately 3,000sf maintenance building that meets current building code requirements and about 2,500sf salt building. Architectural/engineering analyses will define the building dimensions and utility accommodations similar to recent replacement NH DOT Highway Maintenance Facilities.

4) Any back up information



Photo 1: View of front corner of existing building.

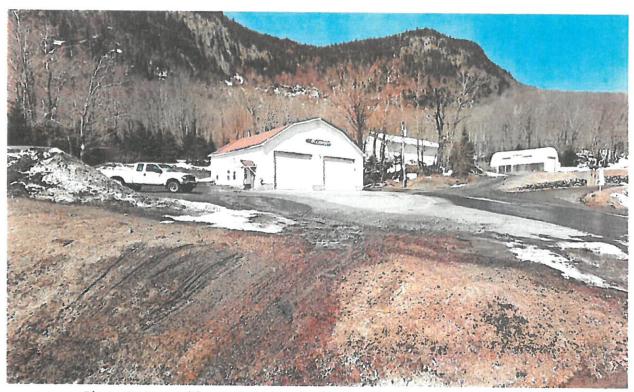


Photo 2: View of front of existing facility looking from country club road.